

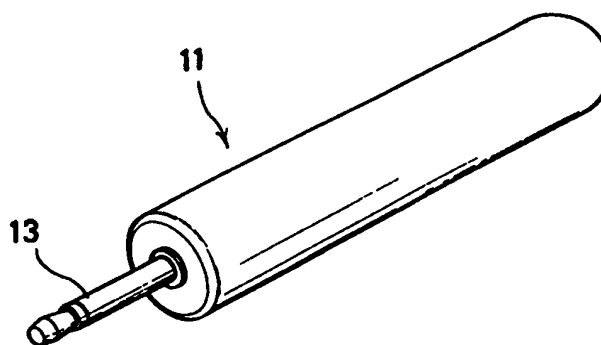


INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/KR95/00006 (22) International Filing Date: 14 January 1995 (14.01.95) (30) Priority Data: 1994/4483 U 8 March 1994 (08.03.94) KR (71)(72) Applicant and Inventor: LIM, Bok, Chul [KR/KR]; 431-22 Bangbae-dong, Seocho-ku, Seoul 137-060 (KR). (74) Agents: KIM, Won, Shik et al.; Yuyang Building, 823-11, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).		(81) Designated States: AU, BR, CA, CN, JP, NO, RU, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>

(54) Title: CERAMIC WARMER**(57) Abstract**

A ceramic warmer for therapeutic use comprising a ceramic body with cylindrical formed bio-ceramics which is capable of radiating the far infra red rays, inside heating means, said ceramic body may be moulded by about 50 wt % of bio-ceramic and 50 wt % of plastics, said heating device includes a heating element which inserted within the cylindrical ceramic body with a connector and electric control circuit, a protruded formed on an end of the body, and said body may be covered with an elastic cap. A ceramic warmer or heater is provided for therapeutic heat treatment of the hemorrhoid tumour, women's diseases, prostate's diseases, and for massages of the skin and face, or treatment with the acupuncture and moxibustion.



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CERAMIC WARMER

TECHNICAL FIELD

5 This invention relates to a warmer for therapeutic treatment or massager, particularly to a ceramic warmer capable of generate the far infra red rays for therapeutic treatment or massager.

10 This invention relates to a bio-ceramic heater for therapeutic heat treatment useful to the prostate's diseases, the hemorrhoid tumour, women's diseases, and massages of the skin and face, or treatment with the acupuncture and moxibustion.

15 DISCLOSURE OF INVENTION

The ceramic warmer for therapeutic use, according to the invention includes a ceramic body, inside heating means, and outside elastic cap.

20

The ceramic body is provided with a cylindrical formed bio-ceramics, which is capable of radiating the far infra red rays.

25 A heating element is inserted within the cylindrical ceramic body with a connector.

This invention provides a bio-ceramic warmer, in capable to generate the far infra red rays, for therapeutic treatment or massager.

This invention provides a ceramic warmer or heater for therapeutic heat treatment of the hemorrhoid tumour, women's diseases, prostate's diseases, and for massages of the skin and face, or treatment with the acupuncture and moxibustion.

5

BRIEF DESCRIPTION OF THE DRAWINGS

Fig.1 is a perspective view of the preferred mode according to this invention,

Fig.2 is a side cross sectional view of Fig. 1 ,

10

Fig.3 is a side cross sectional view of a second preferred mode according to the invention,

Fig.4 is an elevational view of a third preferred mode according to the invention,

Fig.5 is a sectional view of Fig. 4 ,

15

Fig.6 is a back side view of the Fig. 4 ,

Fig.7 is a front view of the fourth preferred mode according to the invention.

MODES FOR CARRYING OUT THE INVENTION

20

Referring now to the figures of the drawings,

Fig. 1 and Fig.2 illustrates a preferred mode of the invention:

25

a cylindrical heating body 11 is formed of bio-ceramic materials capable of radiating the far infra red rays, a heating element 12 is inserted within the cylindrical ceramic body 11 with a connector jack 13 , and the body 11 may be covered with an elastic cap 16.

The heating body 11 may be moulded by 50 wt% of bio-ceramics and 50 wt% of plastics.

The elastic cap 16 may be a one time use resilient cover.

5 Fig. 3 illustrates another preferred mode of the invention: a protrude 14 is formed on an end of the body 11 , heater coil 12 is inserted within the cylindrical ceramic body 11 with a connector jack 13 , the body 11 may be covered with an elastic cap 16.

10

As seen in Fig. 4 - 6 , a further preferred mode of the invention comprises :

15 two cylindrical bio-ceramic bodies 11 , 11' are formed separately, and incorporated with a joint support 17 , then , a plane surface 18 is provided on the back surface of the bodies 11 , 11' . An opening 20 is provide in between the two bodies 11, 11' .

The referenced number 10 is a electric cable 10.

20 And in Fig. 7 , also a further preferred mode of the invention, a convexed protrudes 19 is provided on front or middle portion of the ceramic body 11 . The other features are same as the above described constitution .

25 The usage and operation of the bio-ceramic warmer constructed as described above will be described.

30 As shown in Fig. 1 , 2 , 3 and Fig.7, the connector jack 13 is connected with a connector of the electric heating control box (not shown), the body 11 may be covered with an elastic cap 16.

Then the body 11 of bio-ceramic warmer for therapeutic treatment or massager, is heated and generate the far infra red rays.

- 5 The elastic cap 16 may be coated with a pharmaceutical medicine for a disease to treat.

- 10 Then , a therapeutic heat treatment with a far infra red rays may be applied to treat or prevent of the hemorrhoid tumour, the prostate's diseases, the women's diseases, and massages of the skin and face, or treatment with the acupuncture and moxibustion.

The protrude 14 , 19 may be used as a support.

- 15 As shown in Fig. 4 , 5 and 6, the bodies 11 , 11' are to be heated by a electric controll circuit (not shown). The heated massager rod 11 ,11' and the plane surface 18 may be applied for massages of the skin and face.

- 20 In case of treatment with the acupuncture and moxibustion, the opening 20 between the two bodies may be applied to treat with some acupuncture needles.

- 25 As to the manner of usage and operation of the invention, the same should be apparent from the above description. Accordingly no further discussion relative to the manner of usage and operation will be provided.

CLAIMS

1. A ceramic warmer for therapeutic use comprising:

5 a ceramic body with cylindrical formed bio-ceramics which is capable of radiating the far infra red rays, inside heating means.

2. A ceramic warmer as in claim 1, wherein said ceramic body may be moulded by about 50 wt% of bio-ceramic and 50 wt% of plastics.

10 3. A ceramic warmer as in claim 1, wherein said heating means includes a heating element which inserted within the cylindrical ceramic body with a connector and electric controll circuit.

15 4. A ceramic warmer as claimed in claim 1, wherein further comprising: a protrude formed on an end of the body, heater coil is inserted within the cylindrical ceramic body with a connector jack, said body may be covered with an elastic cap.

20 5. A ceramic warmer comprising: two cylindrical bio-ceramic bodies are formed separately, and incorporated with a joint support, a plane surface is provided on the back surface of the bodies, and an opening is provide in between the two bodies.

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6. A ceramic warmer as claimed in claim 1 or claim 4, wherein further comprising: a convexed protrudes is provided on a portion of the ceramic cylindrical body.

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FIG 1

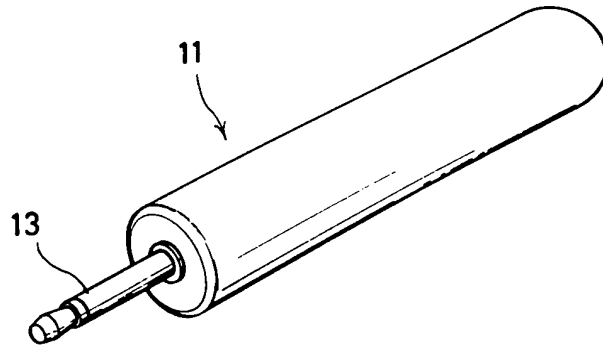


FIG 2

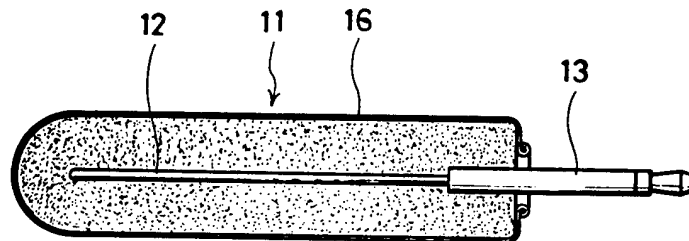
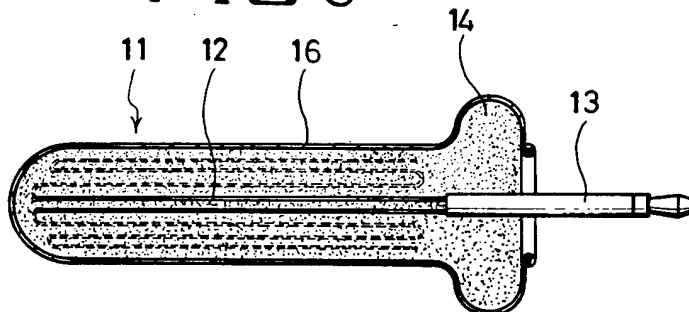


FIG 3



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FIG 4

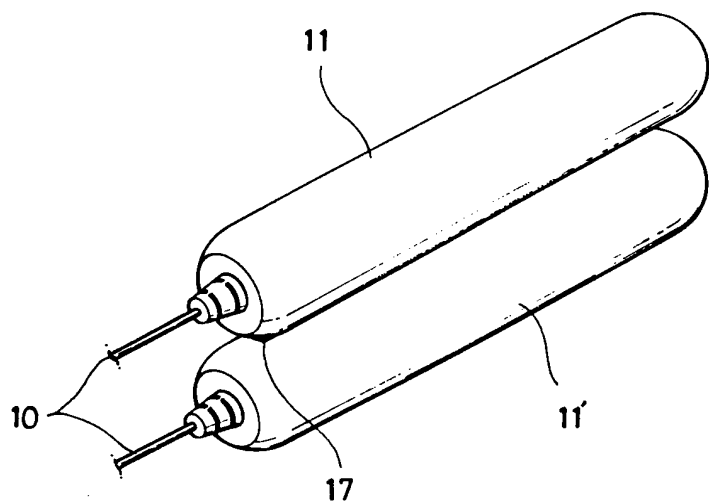


FIG 5

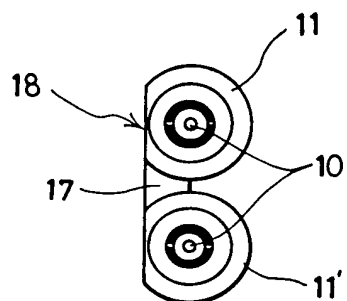
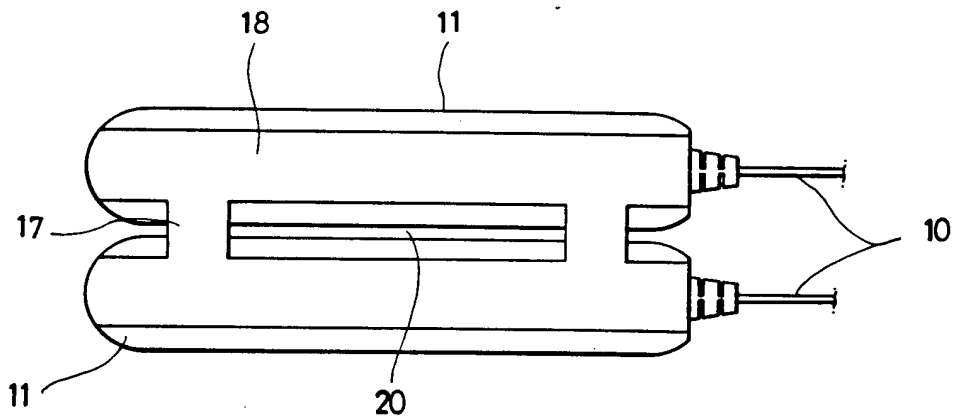
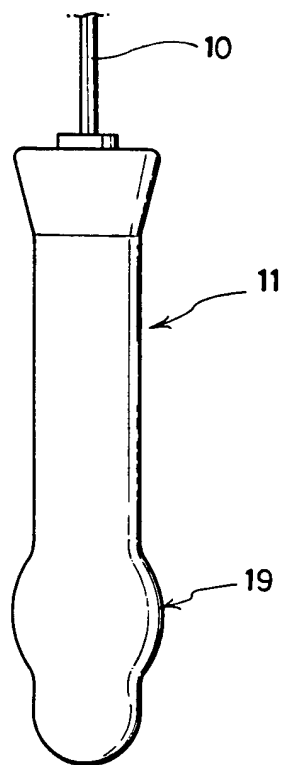


FIG 6



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FIG 7



INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR 95/00006

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁶: A 61 F 7/12, A 61 N 5/06, 1/36, 5/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁶: A 61 N, A 61 F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, FIRST PAGE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 4 872 458 A (KANEHIRA et al.) 10 October 1989 (10.10.89), abstract; fig. 1. -----	1 3

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Im Recherchenbericht angeführtes Patentdokument Patent document cited in search report Document de brevet cité dans le rapport de recherche	Datum der Veröffentlichung Publication date Date de publication	Mitglied(er) der Patentfamilie Patent family member(s) Membre(s) de la famille de brevets	Datum der Veröffentlichung Publication date Date de publication
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